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[HOME](#)

[WHAT'S NEW](#)

[CALENDAR](#)

[PRODUCTS](#)

[NEWS RELEASES](#)

Ontario Equine Research and Services Committee Report

[Table of
Contents](#)

[Aquaculture](#)

[Beef](#)

[Broiler](#)

[Dairy](#)

[Deer](#)

[Egg Layer](#)



[Fur Bearing](#)

[Goat](#)

[Pork](#)

[Sheep](#)

[Turkey](#)

[OASCC Index](#)



Contents

- [Executive Summary](#)
- [Committee Activities](#)
- [State of the Ontario Equine Industry](#)
- [Economic Impact Summary](#)
- [Emerging Issues in the Industry](#)
- [Distribution of Research Priorities](#)
- [Report on Actions Taken on 1997 Recommendations from
ARIO and Research Priorities for 1998/1999](#)
- [Priority Recommendations](#)
- [Appendix](#)
- [Ontario Equine Research and Services Committee Directory -
1998](#)

EXECUTIVE SUMMARY

This report was prepared based on discussions held at the annual meeting on September 22, 1998. The report attempts to provide a factual indication of the state of the Equine industry in Ontario in 1998. Available industry data have not changed since the survey report of Wright and Cation that was detailed in the 1997 report. Overall there is a sense of optimism in the industry in Ontario as number of people participating in the industry continues to apparently increase. Quality of horse shows remains strong and efforts are being made by various industry sectors to encourage and train young people to become involved. Optimism is also present in the Thoroughbred and Standardbred racing sectors. The Ontario Sire Stakes program has provided sufficient encouragement to Ontario breeders to retain quality stallions and mares capable of producing offspring that can compete with any in the world. An example of which is the Ontario bred and owned mare that currently holds the world speed record for the mile in the

Standardbred sector. Although yearling sales prices for Thoroughbreds did not change significantly from 1997 there were changes in the Standardbred sector. Ontario sales averaged from 10 to 25 percent higher on greater numbers in 1998. Purses also have increased slightly reflecting increased returns from off-track wagering.

Problems facing the industry continue to be associated with producing sufficient high quality stock for industry needs and in keeping these horses healthy and injury free. A recent article in a national newspaper highlighted the lack of depth in quality horses capable of competing at international levels in Olympic oriented disciplines. Short fields (fewer than ideal numbers of horses entered in a race) remain a problem in the Thoroughbred racing sector at certain times of the year. The problem is also present in the Standardbred sector but to a lesser degree and appears to be improving more rapidly than with the Thoroughbreds. Such problems are only going to be solved by the development of highly structured breeding and testing programs supported by the industry as a whole. Incentives such as those of the Ontario Sire Stakes program in racing are helping and similar efforts might also aid the development of Canadian-breds capable of competing at the highest levels in Canadian Equestrian Federation organized competitions.

Research priorities remain similar to last year. Respiratory and lameness problems continue to lead the list. The reasons behind these problems are multifactorial and, consequently, encompass a wide variety of efforts to reduce or eliminate them. The various projects funded entirely or in part by OMAFRA resources are listed later in this report. Committee members felt strongly that more effort was needed in the dissemination of research information to the industry and the continuing education of those in the industry charged with the production and management of horses. Committee members were highly complimentary of the efforts of Dr. Viel and the Equine Program in producing the Equine Research Report published in 1998. They also expressed the concern that it was not widely enough disseminated and the hope that it would be soon repeated.

[| Table of Contents |](#) [| Top of Page |](#)

COMMITTEE ACTIVITIES

The annual meeting of the Committee was held on September 22nd at the University of Guelph. Twelve members were in attendance and input for the meeting was received from 3 members who were unable to attend. Oral reports were received from various industry segments. The suggestion made at the previous annual meeting that representation be sought for the equine industry on higher level provincial and federal bodies (i.e., ARIO and CARC respectively) was answered. The Chair of the OERSC had attended the CARC Animals Committee in Ottawa on December 12, 1997 and presented a report on the industry in Ontario and Canada. Names of possible ARIO committee members had been forwarded to OMAFRA for consideration. The Committee also received a report from Dr. L. Viel on the very successful World Equine Airways Symposium (WEAS) held in Guelph in August, 1998. This conference was jointly organized by the University of Guelph (with OMAFRA support), Cornell University and Michigan State University. Dr. Viel was chair of the organizing committee and consequently played a leading role in its development and success. Work presented at this conference addressed the top research priority of the OERSC.

Research priorities were then discussed in detail. In the discussion that followed it was clear that previously stated priorities had not changed. Although progress is being made on the priority issues the same problems remain as serious concerns, a clear indication of the complexity of the problems. These priorities are listed below.

There was also discussion of the continuing need for the dissemination of information through extension programs, seminars, and special courses which could be taken by professionals and other interested parties in the industry. Dr R. Wright reported that he was now 100 percent equine in his responsibilities with OMAFRA. This information was well received and the hope was expressed that this change would aid in getting more information to industry players.

[| Table of Contents](#) | [Top of Page](#) |

STATE OF THE ONTARIO EQUINE INDUSTRY

The Committee reported that there is a positive attitude amongst industry stakeholders at present regarding the overall health of the industry. There remain areas of concern, however, particularly with the quantity of top quality horses capable of competing at international levels. The Committee perceives that there is good demand for horses as reflected by the strengthening prices for yearlings (various yearling sales saw average prices increase among 10 and 25 percent on an increased number of horses offered).

Example of industry growth is the Ontario Horse Industry Expo which held its first annual show at Mohawk Raceway at Milton, April 3-5, 1998. The Expo hosted a breed promotion, seminars and a trade fair in an effort to enhance the marketing potential for Ontario horses, horse industry products and up-to-date information.

The professional and amateur sport horse sector consists of those horses involved in competing at many different horse shows across the province. There is a continuing strong demand for sport horses with many of them leaving the country, partially because of the weakness of the Canadian dollar. Number of mares bred appears to be increasing and those bred are of high quality. This indicates that prices should remain strong for the next few years but the quality of the animals available will be improved to support those prices.

The Sport horse sector has become very optimistic about the future based on increasing number of participants at local and regional horse shows. In many cases the number of participants has more than doubled over the past 2-3 years. These participants represent the industry's base and should provide good momentum for future growth.

The Annual Statistical Report of the Ontario Racing Commission for 1996 (the latest currently available) indicates a wagering total for Ontario that is approximately \$1.2 B, up about 10 %, and attendance up slightly over the previous year. Preliminary information for the Ontario Jockey Club indicates that the rise in attendance and wagering continued through 1997. These increases are thought to be attributable to the intertrack and off-track telecasting of racing programs. All of these data are encouraging to Ontario breeders who have had several difficult years when demand and prices were depressed. It also reflects

the improvement in quality of breeding stock and in performance of offspring over the past 3 to 4 years.

Progress is continuing on the streamlining of the industry to improve efficiency and effectiveness in promoting the product. The Ontario Horse Racing Industry Association (OHRIA) has been formed to speak for and add direction to the entire racing industry. The Canadian Standardbred Horse Society and the Canadian Trotting Association have amalgamated to form Standardbred Canada to eliminate duplication of effort and costs and to enable more rapid decision making in the Standardbred sector. The industry as a whole remains very supportive of research efforts and currently provides over 60 percent of the total dollars available for research in Ontario.

A recent study of the industry spearheaded by the OVMA and the OAEP produced the following responses when asked "What is the #1 horse health issue in Ontario?"

1. Respiratory problems and allergies
2. Lack of information on alternative therapies
3. Education of new owners on general husbandry
4. Improper nutrition and education about sound nutrition
5. Preventive medicine - worming
6. Poor general husbandry practices
7. Hay and water quality

[| Table of Contents |](#) [| Top of Page |](#)

ECONOMIC IMPACT SUMMARY

The Ontario equine industry is a diverse industry divided into three major commercial sectors. Racing horses, Sport horses, professional and amateur, and Pleasure and hobby horses. There are a total of 30 Breed Registration Associations. The Ontario equine industry employs approximately 79,000 people, full-time and part-time (OMAFRA survey). Total revenues generated from the equine industry are in excess of \$4 billion annually (OMAFRA survey). Much of this money is spent in rural Ontario supporting service and supply segments.

Surveys carried out by the Ontario Ministry of Agriculture, Food and Rural Affairs show that there are 2,267 Ontario Equestrian Federation members, 500 Ontario Quarter Horse Association members, 600 Ontario based Canadian Thoroughbred Association members, and 2,505 Ontario based Canadian Standardbred Horse Society members.

The Pleasure and hobby horse sector is the largest of the equine industry, and the least known in terms of its impact on the economy. Combined, amateur and professional sport horses and pleasure/hobby horses sectors represent 63% of the total revenue generating industry. This sector accounts for significant purchasing of horse products, such as feed, equine health products, tack, farrier and health services, etc.

It is estimated that in Ontario every thousand horses consume about \$400,000 worth of grain, hay and commercial feed products and about \$150,000 in bedding material. Based on an estimate of 278,000 non-racing horses this represents approximately \$110 million of commercially produced mixed feeds, grains and hay. Of this, commercially prepared feed sales represents approximately \$50 million annually. It is estimated that approximately 50% of all

horses in Ontario are fed home-grown grains, hay and possibly a mineral (salt) supplement and no commercially prepared feed. It is probable that these horses are being fed unbalanced diets to their long-term detriment.

[| Table of Contents](#) | [| Top of Page](#) |

Table 1. Economic Impact of the Sport and Pleasure Horse Industry in Ontario

Inputs	Average Expenditure per 1000 Horses per Annum \$	Total Estimated Economic Impact \$
Feed & Grains	393,000	104,145,000
Bedding	122,000	32,330,000
Herd Health	218,000	57,770,000
Total	733,000	194,245,000

Source: OMAFRA survey

[| Table of Contents](#) | [| Top of Page](#) |

It is estimated that the Ontario Racing industry is a \$2.0 billion industry, which includes livestock, salaries, real estate, transportation, wagering and secondary industries. With racing at 18 provincial race tracks (16 Standardbred tracks, 2 Thoroughbred tracks) there are 24,600 people employed directly by the industry, and another 5,600 people employed part time. The purchases of goods and services by the race horse industry is outlined in Table 2.

Table 2. Economic Impact of the Race Horse Industry in Ontario (from OMAFRA survey)

Inputs	Average Expenditure per 1000 Horses per Annum \$		Total Estimated Economic Impact \$	
	Standardbred	Thoroughbred	Standardbred	Thoroughbred
Feed & Grains	498,000	606,000	21,145,000	5,000,000
Bedding	125,000	143,000	6,180,000	3,550,000
Herd Health	450,000	359,000	18,200,000	2,630,000
Total	3,212,000	3,490,000	61,349,000	28,000,000

The racing industry consists of a total of approximately 28,000 horses, with 19,010 Standardbreds (18% of Standardbreds are Trotters), 7,990 Thoroughbreds and 342 racing Quarter Horses (Table 3). These numbers included 6,000 breeding mares and stallions needed to produce racing horses.

[| Table of Contents](#) | [| Top of Page](#) |

Table 3. Race Horse Population in Ontario by Breed (data from OMAFRA survey)

	Thoroughbreds	Standardbreds	Quarter Horses
Active Racing Horses	3,303	9,069	105
Foals & Yearlings	2,764	5,921	127
Mares & Stallions	1,933	4,020	100
Totals	7,990	19,010	342

The total value of equine meat exported from Ontario in 1993 was \$4.4 million. This is down from a peak in exports in 1989. The majority of all horses processed are slaughtered at a large plant in Owen Sound. Approximately 80% of all the horses processed in Ontario are brought in from the U.S.A.

[| Table of Contents |](#) [| Top of Page |](#)

Other results from the OMAFRA survey:

- There are an estimated 293,000 horses in Ontario
- The Ontario horse industry maintains a healthy trade in horses, exporting to other provinces and countries approximately 30% of progeny produced in Ontario.
- The Ontario horse industry spends an estimated \$40.2 million annually on employment
- The Ontario horse industry directly employs an estimated 79,000 people and requires approximately 136 million employment hours annually.
- Estimated total annual expenditures by the Ontario horse industry is \$567 million.
- Estimated total assets and investments held by the Ontario horse industry is \$5.50 billion.
- The largest investments for both the non-racing sector and the racehorse sector are for land, buildings and horses.

[| Table of Contents |](#) [| Top of Page |](#)

EMERGING ISSUES IN THE INDUSTRY

As stated above the committee agreed that research priorities remained as stated in the previous report. There is the realization that welfare issues are an important part of the public concern with the industry and that we are currently doing little work in this area. The committee does not feel that scarce research dollars should be diverted from current research, but welfare issues need to be given consideration if additional research funding becomes available. Questions are also arising concerning the use of nutraceuticals in the prevention of health problems. Answers for these nutraceuticals questions are not available and this may have to be addressed in future research efforts. The availability and cost of quality forage is also a concern for those owners, trainers and managers purchasing these feedstuffs. The development of a quality assessment system would be helpful in determining standards of forage quality for horses.

[| Table of Contents |](#) [| Top of Page |](#)

DISTRIBUTION OF RESEARCH PRIORITIES

Research	Priority	U ofG	ERC	OMAFRA	ARIO	CARC
Lameness	1	X	X		X	
Respiratory	1	X	X		X	
Performance and M/S system	1	X	X		X	
Gastrointestinal function	2	X			X	
Reproduction	2	X			X	
Anesthesia	2	X	X		X	
NON-RESEARCH						
Extension	1	X		X		
Laboratory Services	1	X		X	X	

| [Table of Contents](#) | | [Top of Page](#) |

REPORT ON ACTIONS TAKEN ON 1997 RECOMMENDATIONS FROM ARIO AND RESEARCH PRIORITIES FOR 1998/1999

In this report research priorities are presented in the same format as presented to ARIO in the program review conducted during the summer of 1997. The use of this format should eliminate any possible confusion of interpretation of priorities.

Recommendation #1. Lameness (A Continuing Priority:1-B Priority):

Objective 1: To investigate methods for the prevention and treatment of lameness and trauma induced injury in equines.

Goal 1.1: To investigate limb abnormalities (osteochondrosis, angular limb deformity) with emphasis on prevention, early diagnosis, repair and rehabilitation.

Goal 1.2: To investigate traumatic injuries to joints and long bone fractures with emphasis on methods of prevention and repair.

Goal 1.3: To examine the structure and biomechanics of the equine hoof.

Goal 1.4: To further develop Magnetic Resonance Imaging of the horse.

RESPONSE:

ARIO

It was noted in the 1997 report of the equine subcommittee that the previous year's priorities had not changed. Hence, the above recommendation is reprinted from the 1996 report of the equine subcommittee. The 1997 report presents the 1996 priorities in the same format (Objectives and Goals) as used in the Equine Research Program Review document presented to ARIO in June 1997. Rather than restate the Objectives and Goals that pertain to the above recommendation, the ARIO acknowledges support of the recommendation as demonstrated through the approval of the 1997-2001 Equine Research Program. Research can be done under the pertinent Objective to address the above recommendation.

UNIVERSITY OF GUELPH ACTIONS

The recommendations concerning Equine Lameness are being addressed in 1998/99 by the following research projects:

Project #	Leader	Title
11860	Hurtig, M.	Repair of damaged joint surface using fresh and cryopreserved osteochondral allografts in the horse using arthroscopic surgery
14890	Hurtig, M.	Resurfacing damaged joints using reconstituted cartilage tissue
16230	Thomason, J.	Variation in hoof capsule strain: causes and implications for hoof growth
17610	McCutcheon, J.	Ion regulation and substrate utilization in skeletal muscle: effects of exercise and training
17630	Thomason, J.	A study of the effect of hoof shape on its mechanical behaviour using finite element analysis
18140	Thomason, J.	Assessing the risk of hoof cracks in horses in relation to nutrition and environment
18560	McCutcheon, J.	Effect of exercise training on glucose regulation in growing horses on a high energy diet

[! Table of Contents](#) | [Top of Page](#) |

Equine Research Centre Inc. actions(non-OMAFRA funded):

The ERC has a 5-point approach to addressing equine lameness:
These include:

- a). The use of nuclear medicine to detect bone changes before serious injury occurs
- b). Growing sounder foals
- c). Improving foot care and trimming
- d). Identifying risk factors causing breakdown at tracks
- e). Developing new techniques for fracture repair

OMAFRA support through ARIO was provided to two projects which fall under a) and e) above namely:

- 1). The use of bioabsorbable screws for fracture repair in horses
- 2). Equine nuclear scintigraphy

Other ERC projects addressing lameness:

- 1). Growth and Development: Orthopaedic Disorders in Foals
- 2). Epidemiology of Racetrack Fatalities
- 3). Study of hoof structure and function

| [Table of Contents](#) | | [Top of Page](#) |

Recommendation #2: Respiratory Problems (a Priority:1-B continuing priority)

Objective 2: To characterize, prevent and alleviate respiratory disorders in horses.

- Goal To investigate the pathogenesis, treatment and control
2.1: of viral and bacterial infections, including Rhodococcus
 equi in foals.
- Goal To investigate the pathology of inflammation, its
2.2: development in foals and its role in exercise induced
 pulmonary hemorrhage and allergic small airway
 disease.
- Goal 2.3: To continue to develop diagnostic methods and
 therapeutics necessary for the characterization and
 alleviation of respiratory disorders.

RESPONSE:

ARIO

It was noted in the 1997 report of the equine subcommittee that the previous year's priorities had not changed. Hence, the above recommendation is reprinted from the 1996 report of the equine subcommittee. The 1997 report presents the 1996 priorities in the same format (Objectives and Goals) as used in the Equine Research Program Review document presented to ARIO in June 1997. Rather than restate the Objectives and Goals that pertain to the above recommendation, the ARIO acknowledges support of the recommendation as demonstrated through the approval of the 1997-2001 Equine Research Program. Research can be done under the pertinent Objective to address the above recommendation.

UNIVERSITY OF GUELPH ACTIONS

The recommendations concerning Equine Respiratory Disease are being addressed in 1998/99 by the following research projects:

Project #	Leader	Title
11810	Prescott, J.	Immunity to Rhodococcus equi pneumonia of foals
11820	Viel, L.	Allergic airway disease in horses: assessment of the role of inflammation, treatment and improved diagnostics
16240	Viel, L.	Allergic small airway disease in racing horses: Assessment of inhaled bronchodilators using treadmill exercise testing and bronchoalveolar lavage
17580	Prescott, J.	How does hyperimmune plasma protect against Rhodococcus equi pneumonia in foals?
18570	Yager, J.	Immunity to Rhodococcus equi and the pathogenesis of infection

| [Table of Contents](#) | | [Top of Page](#) |

Equine Research Centre Inc. actions (non-OMAFRA funded):

The ERC has 2 projects relating to respiratory disease, both projects receiving funding from OMAFRA through ARIO.

- 1). Kinetics of respiratory disease in horses
- 2). Equine nuclear scintigraphy

The latter project deals with several body systems. The sections in this relating to respiratory health and exercise induced pulmonary haemorrhage have been highlighted.

| [Table of Contents](#) | | [Top of Page](#) |

Recommendation #3: Factors affecting performance (a continuing priority):

Priority: 1-B

Objective 3: To investigate factors affecting performance of horses as related to the musculoskeletal system.

- Goal To investigate cardiovascular, respiratory and thermoregulatory function, and the regulation of fluids and electrolytes during exercise under varied ambient conditions.
- 3.1:

RESPONSE:

ARIO

It was noted in the 1997 report of the equine subcommittee that the previous year's priorities had not changed. Hence, the above recommendation is reprinted from the 1996 report of the equine subcommittee. The 1997 report presents the 1996 priorities in the same format (Objectives and Goals) as used in the Equine

Research Program Review document presented to ARIO in June 1997. Rather than restate the Objectives and Goals that pertain to the above recommendation, the ARIO acknowledges support of the recommendation as demonstrated through the approval of the 1997-2001 Equine Research Program. Research can be done under the pertinent Objective to address the above recommendation.

UNIVERSITY OF GUELPH ACTIONS

The recommendations concerning factors affecting performance of horses as related to the musculoskeletal system are addressed in the following projects.

Project #	Leader	Title
11840	McCutcheon, J.	Fluid and ion balance in exercise performance
13050	Geor. R. J.	Thermoregulation in the exercising horse: alterations in performance associated with exercise induced hypothermia, and effects
17610	McCutcheon, J.	Ion regulation and substrate utilization in skeletal muscle: effects of exercise and training
17640	Staempfli, H.	Are total body electrolyte imbalances involved in clinical and subclinical manifestations of exercise related myopathies in racehorses?
18560	McCutcheon, J.	Effect of exercise training on glucose regulation in growing horses on a high energy diet

| [Table of Contents](#) | | [Top of Page](#) |

Recommendation #4: Gastrointestinal function **Priority:**
(a continuing priority): **2-B**

Objective 4. To investigate nutritional and physiological factors which affect gastrointestinal function.

Goal 4.1: To investigate the nutrient composition of common feeds and the influence of certain nutrients and vitamins on growth, development and racing performance.

Goal 4.2: To investigate the causes and treatment of small and large bowel enteritis.

Goal 4.3: Epidemiology and transmission of intestinal parasites in equids.

RESPONSE:

ARIO

It was noted in the 1997 report of the equine subcommittee that the previous year's priorities had not changed. Hence, the above recommendation is reprinted from the 1996 report of the equine subcommittee. The 1997 report presents the 1996 priorities in the same format (Objectives and Goals) as used in the Equine Research Program Review document presented to ARIO in June 1997. Rather than restate the Objectives and Goals that pertain to

the above recommendation, the ARIO acknowledges support of the recommendation as demonstrated through the approval of the 1997-2001 Equine Research Program. Research can be done under the pertinent Objective to address the above recommendation

UNIVERSITY OF GUELPH ACTIONS

The recommendations concerning nutritional and physiological factors which affect gastrointestinal function are addressed in the following projects.

Project #	Leader	Title
13150	Dobson, H.	Diagnoses of gastrointestinal ulceration in neonatal foals.
17620	Staempfli, H.	Efficacy of oral bacitracin in the treatment of acute severe idiopathic colitis in the horse.

Equine Research Centre Inc. actions (non-OMAFRA funded):

The ERC has one project entitled "The effect of production method, management and storage on the nutritive and hygienic quality of Ontario hay and Ontario hay products".

[| Table of Contents](#) | [| Top of Page](#) |

Recommendation #5: Reproduction (a continuing priority): Priority: 2-B

Objective 5. To investigate factors related to reproductive problems.

- Goal 5.1: To study the mechanisms of pregnancy establishment and maintenance in the mare.
- Goal 5.2: To study gamete (ovum and sperm) physiology to promote increased fertility in horses.

RESPONSE:

ARIO

It was noted in the 1997 report of the equine subcommittee that the previous year's priorities had not changed. Hence, the above recommendation is reprinted from the 1996 report of the equine subcommittee. The 1997 report presents the 1996 priorities in the same format (Objectives and Goals) as used in the Equine Research Program Review document presented to ARIO in June 1997. Rather than restate the Objectives and Goals that pertain to the above recommendation, the ARIO acknowledges support of the recommendation as demonstrated through the approval of the 1997-2001 Equine Research Program. Research can be done under the pertinent Objective to address the above recommendation.

UNIVERSITY OF GUELPH ACTIONS

Recommendations concerning reproduction are addressed in the following project.

Project #	Leader	Title
17600	Betteridge, K.	Investigation of the adhesion between the conceptus and the endometrium during early pregnancy in the mare

Equine Research Centre Inc. actions (non-OMAFRA funded):

The ERC Inc. has one project entitled "Factors influencing semen quality and preservation".

[| Table of Contents](#) | [| Top of Page](#) |

**Recommendation #6: Sedation, analgesia, and anesthesia
(a continuing priority)**

**Priority:
2-B**

Objective 6. To investigate methods of reducing the risk and complications of equine sedation, analgesia, and anesthesia.

- Goal 6.1: To investigate cases of cecal impaction as a consequence of anesthesia.
- Goal 6.2: To study cardiovascular parameters and recovery characteristics following the use of common sedatives.
- Goal 6.3: To study hemodynamic stability during general anesthesia.

RESPONSE:**ARIO**

It was noted in the 1997 report of the equine subcommittee that the previous year's priorities had not changed. Hence, the above recommendation is reprinted from the 1996 report of the equine subcommittee. The 1997 report presents the 1996 priorities in the same format (Objectives and Goals) as used in the Equine Research Program Review document presented to ARIO in June 1997. Rather than restate the Objectives and Goals that pertain to the above recommendation, the ARIO acknowledges support of the recommendation as demonstrated through the approval of the 1997-2001 Equine Research Program. Research can be done under the pertinent Objective to address the above recommendation.

UNIVERSITY OF GUELPH

Recommendations concerning reducing the risks associated with equine sedation and anaesthesia are addressed in the following project.

Project #	Leader	Title
22070	McDonell, W.	To investigate methods of reducing the risk and complications of equine sedation, analgesia, and anaesthesia

[| Table of Contents](#) | [| Top of Page](#) |

PRIORITY RECOMMENDATIONS

The OERSC recommends that research priorities remain as currently stated in the ARIO approved program for the current year. The consensus of the meeting was that problems associated with respiratory function and lameness, including growth associated abnormalities continue to present significant difficulties in the production and maintenance of performance horses. These are multifaceted problems that require research attention from a variety of directions. The Committee is satisfied that available funds are being well utilised but emphasises the need for efforts to attract additional research funding.

1. The Committee also sees a strong demand from the industry for information on the prevention of such problems as well as the proper management of horses. The Committee recommends that efforts be made to join the research capabilities of the University with the extension mandate and experience of Dr. Robert Wright and the industry publishing and extension expertise of the ERC Inc. to make research results available to interested industry personnel in a timely fashion.

[| Table of Contents |](#) [| Top of Page |](#)

APPENDIX

Duties and Terms of Reference of the Committee

1. To review equine research and service being carried out in Ontario.
2. To discover and disclose problems facing the equine industry that require investigation
3. To assess the relevance of research and service programs and suggest priorities for research efforts, especially those funded by OMAFRA, and to recommend what programs underway should be continued, expanded or terminated.
4. To estimate the cost involved to conduct the recommended research and service programs and to supply cost benefit information if possible.
5. To supply information and recommendations in written reports to the OARSC.
6. To function through an animal species chairperson who will be appointed through OARSC. The appointment of the chair will be for a 4 year period. He or she will not succeed themselves but may serve an additional 4 year period with at least a 4 year absence between each period.

[| Table of Contents |](#) [| Top of Page |](#)

ONTARIO EQUINE RESEARCH AND SERVICES

COMMITTEE DIRECTORY

Name	Address	Affiliation	Appointment
Dr. Keith Betteridge	Biomedical Science University of Guelph Guelph, Ontario N1G 2W1 Tel: 519-824-4120 ext. 8258	Research - Reproduction	1999
Dr. John Burton (Chair)	Animal & Poultry Science University of Guelph Guelph, Ontario N1G 2W1 Tel: 519-824-4120 ext. 3680 Fax: 519-836-9873	Research - Nutrition	1999
Dr Andrew Clarke	Equine Research Centre Guelph, Ontario N1H 6R8 Tel: 519-837-0061 Fax: 519-767-1081	Director, ERC	1998
Dr. Mike Corridini	Tottenham Animal Clinic 17 Queen St. N., Box 476 Tottenham, Ontario L0G 1W0 Tel: 905-936-3131	Ontario Equine Practitioners	1999
Dr. Gerald Dinelle Jr	45 Pinnacle Cres. Guelph, Ontario N1K 1P6 Tel: 519-763-7479	Industry - Standardbred Trainer	1999
Mr. Jay Hayes	Northridge Farms P.O. Box 9 Cheltenham, Ontario L0P 1C0 Tel: 905-838-1639	Industry - Hunter, Jumper, International Competitor	1999

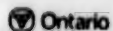
Dr. James Henderson	R.R.#1 Inglewood, Ontario L0N 1K0 Tel: 905-459-1333	Industry - Pleasure & Quarter Horse, Equine Practitioner	1998
Dr. Arthur King	Ontario Equestrian Federation 1185 Eglinton Ave. E Suite 603 North York, Ontario M3C 3C6 Tel: 416-426-7232 Fax: 416-436-7355	Ontario Equestrian Federation - President, Hunter & Jumper	1998
Mr. Mel Livingston	P.O. Box 1066 King City, Ontario L0G 1K0	Co-ordinator of Farrier Program - Seneca College	1998
Mr. Bernard McCormick	Windfields Farm P.O. Box 67 Oshawa, Ontario L1H 7K8 Tel: 905-725-1195	Industry - Thoroughbred Breeder, Farm Manager	1999
Dr. Wayne McDonell	OVC, University of Guelph Guelph, Ontario N1G 2W2 Tel: 519-824-4120 ext. 4095	Research	1998
Dr. Dan McMaster	210 Campbellville Rd. Campbellville, Ontario L0P 1B0 Tel: 905-659-1923 Fax: 905-245-5916	Industry - Equine Practitioner	1999
Dr. Pat Meyers	R.R.#2, Hillsburgh, Ontario N0B 1Z0 Tel: 519-855-9823	Equine Reproduction Specialist	2000
Mr. Cam Shantz	R.R.#1 Plattsville, Ontario N0J 1S0 Tel: 519-696-2887	Industry - Heavy Horses	1998

Dr Richard Spratt	Ralston Purina Canada, Inc. 404 Main St. P.O. Box 250 Woodstock, Ontario N4S 7X5 Tel: 519-539-3724	Feed Industry	2000
Dr. John Thomson	R.R.#3 Woodstock, Ontario N4S 7V7 Tel: 519-537-7836	Canadian Standardbred Horse Society Broodmare	1998
Ms. Melissa Todd	R.R.#1 Bright, Ontario N0B 1E0 Tel: 519-632-8916	Industry - Hunter/Jumper	1998
Dr. Laurent Viel	Department of Clinical studies University of Guelph Guelph, Ontario N1H 6R8 Tel: 519-824-4120 ext. 4067	Coordinator, Equine Program; Respiratory Specialist	2000
Dr. Robert Wright	OMAFRA, Animal Industry Br. Wellington Place R.R.#1 Fergus, Ontario N1M 2W3 Tel: 519-846-0965 Fax: 519-846-8101	Extension OMAFRA	1998

[| Table of Contents |](#) [| Top of Page |](#)

[| Education, Research & Laboratories Home Page |](#)

[| Central Site |](#) [Feedback |](#) [Search |](#) [Site Map |](#) [Français |](#)
[| Home |](#) [What's New |](#) [Calendar |](#) [Products |](#) [News Releases |](#)



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